Amendment under 37 CFR §1.111 Application No. 10/583,660 Attorney Docket No. 062668

## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions of claims in the application.

## **Listing of Claims**

Claim 1 (Currently amended): A substrate inspection apparatus for inspecting a formation state of a pattern area formed on a substrate, the substrate inspection apparatus comprising:

an <u>inside area</u> inspection data generation means for generating <u>a first</u> inspection data of an in the inside <u>area</u> and outside of a pattern area to be inspected, the inside area data generation means performing a reduction processing of the inside area to generate the first inspection data,

an outside area data generation means for generating a second inspection data of an outside area of the pattern area, the outside area surrounding the inside area, the outside area data generation means performing an expansion processing of the outside area to generate the second inspection data; [[and]]

[[a]] an inside determination means for determining whether the pattern area is defective or not defective by comparing the <u>first</u> inspection data of the inside of the pattern area generated by the inspection data generation means with predetermined inside reference inspection data; and

an outside determination means for determining whether the pattern area is defective by comparing the second inspection data of the outside with predetermined outside reference inspection data.

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Claim 2 (Currently amended): The substrate inspection apparatus according to Claim 1,

wherein the type of the first inspection data of the inside of the pattern area differs form the type

of the second inspection data of the outside.

Claim 3 (Currently amended): The substrate inspection apparatus according to Claim 1,

wherein the <u>first</u> inspection data of the inside of the pattern area is data about luminance and the

second inspection data of the outside is data about shapes.

Claim 4 (New): The substrate inspection apparatus according to Claim 1, wherein a

stricter inspection reference is applied to the outside area than to the inside area.

Claim 5 (New): The substrate inspection apparatus according to Claim 1, wherein the

outside area data generation means generates the second inspection data based on luminance in a

normal direction of the pattern area.

Claim 6 (New): The substrate inspection apparatus according to Claim 1, wherein the

outside area data generation means detects inflection points in a position-luminance graph as the

second inspection data, and wherein the outside determination means determines whether the

pattern area is defective by comparing the second inspection data with predetermined outside

reference inspection data.

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